N THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 022002-03

Paper No. 3

PATENT

I HEREBY CERTIFY THAT THIS

CORRESPONDENCE IS BEING

DEPOSITED WITH THE U.S. POSTAL

Group Art Unit 3672

In re Application of: David Lush et al.

Application No. 10/717,046 Filed November 19, 2003

SUBSEA RISER SEPARATOR SYSTEM

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO COMMISSIONER FOR PATENTS

P.O. BOX 1450 ALEXANDRIA, VA 22313-1450, ON

April 22, 2004

(DATE SIGNED) YALE S. FINK REG. NO. 27,

Sir:

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97 AND 1.98

It is respectfully requested that the Examiner consider disclosures AA-AR, BA-BK, BM-BR, CA and CC-CN identified on the attached three sheets of Form 1449 in relation to his or her examination of the above-identified patent application.

Since copies of disclosures AA-AJ, AM-AR, BA, BC-BE, BG-BK, BM-BR, CA and CC-CN were either (1) submitted to the Patent and Trademark Office (PTO) in Applicants' parent case, Application No. 10/138,020 filed on May 2, 2002, now U.S. Patent No. 6,651,745, which case is being relied upon for an earlier filing date under 35 USC 120, or (2) cited by the PTO in this earlier case, submission of copies of these disclosures is not required by 37 CFR 1.98(d). However, since disclosures AH, AO, AR, BA, BD and BO appear to the undersigned to be at least somewhat more relevant to the claimed invention than the other disclosures of record in the parent case, copies of these documents are enclosed for the convenience of the Examiner. Disclosures AK, AL, BB, and BF were not listed on the cover pages of U.S. Patent 6,651,745, which issued on the parent application. Thus, copies of these documents are enclosed for the Examiner's consideration.

A concise explanation of the relevance of the disclosures identified on the attached three sheets of Form

Information Disclosure Statement Continuation of Application No. 10/138,020 Docket No. 022002-03

1449 have not been included in this disclosure statement since 37 CFR 1.98, as revised and made effective on March 16, 1992, no longer requires such an explanation for disclosures in the English language.

Since a first Office Action on the merits in this application has not yet been mailed, 37 CFR 1.97(b)(3) makes it clear that the submission of this disclosure statement is timely, and therefore the statement should be considered by the Examiner.

Disclosures AA-AR, BA-BK, BM-BR, CA and CC-CN are not admitted prior art. The Examiner is respectfully requested to consider these disclosures, place his or her initials in the appropriate location on the attached sheets of Form 1449 indicating that the Examiner has done so, and return a copy of each sheet with the Examiner's next communication in accordance with the procedure set forth in Section 609 of the Manual of Patent Examining Procedure.

Respectfully submitted,

Yale S. Finkle

Attorney for Applicants Registration No. 27,547

(714) 577-2642

April 22, 2004

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Union Oil Company of California P.O. Box 7600 Brea, CA 92822-7600

SHEET 1 OF 3

INFORMATION DISCLOSURE STATEMENT												EY NO: 3	APPL. N 10/717,0		
APR 2 6 2004 COMPANIENTS												APPLICANT David Lush et al.			
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*Exam. Initial			DO	OCUM	ENT N	NUMB	ER		DATE	NAME	CLASS	SUB CLASS	FILING DATE		
	AA	3	2	5	2	4	3	9	05/24/1966	Shatto, Jr. et al.	114	257			
	AB	3	6	0	2	7	0	1	08/31/1971	Boyd, Jr.	700	36			
·	AC	3	6	0	8	6	3	0	09/28/1971	Wooden et al.	166	357			
	AD	3	6	4	3	7	3	6	02/22/1972	Talley, Jr.	166	356			
	AE	4	0 4 6 1 9 1 09/06/1977 Neath									352			
	AF	4	1 4 9 6 0 3 04/17/1979 Arnold 175 7									7			
-	AG	4	2	9	1	7	7	2 09/29/1981 Beynet 175 5							
	АН	4	5	2	7	6	3	2	07/09/1985	Chaudot	166	357			
	Al	4	5	7	7	7	0	0	03/25/1986	Dellinger et al.	175	40			
	AJ	4	6	5	1	8	3	6	03/24/1987	Richards	175	62			
	AK	4	8	4	8	4	7	5	07/18/1989	Dean et al.	166	357			
	FOREIGN PATENT DOCUMENTS														
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	AL	2	2	6	0	0	8	7	04/07/1993	uĸ					
- ···- · · · · · · · · · · · · · · · ·	OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)														
		<u> </u>									<del></del>				
	AM		Strand, B. and Bakke, W., "Subsea Separation on the Troll Field," <u>Scandinavian Oil-Gas Magazine,</u> July 8, 1998, pp. 122-124.												
, , , , , , , , , , , , , , , , , , , ,	AN		Baggs, C., Kent, I., and Allen, John, "Troll Pilot Control System: Advanced Control System for a Subsea Separator," Offshore Technology Conference (OTC) 12154, May 1-4, 2000, pp 1-10.												
	AO		Arnold, K.E. and Ferguson, P.L., "Tomorrow's Compact Separation Train," <u>Hart's E&amp;P</u> , December 1999, pp. 80-82.												
	AP		Fjøsne, E., "Subsea Processing – Maximising Value in Areas With Existing Infrastructure," Offshore Technology Conference (OTC) 14008, May 6-9, 2002, pp. 1-5.												
	AQ		Eriksen, S., "How Can Subsea Processing Remove Topside Processing Constraints," FMC Energy Systems, FMC Kongsberg Subsea, August 30, 2001, 11 pages.												
	AR		Davalath, J. "Economic Benefits of Compact Subsea Separation System," FMC Energy Systems, Deep Offshore Technology 1999, 14 pages.												
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and <u>not</u> cons	siaered.	includ	e cop	y of th	is form	ı With	tne ne	ext con	nmunication to ap	piicant.					

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								U. S	. PATENT DOCU	MENTS				
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	ВА	4	9	0	0	4	3	3	02/13/1990	Dean et al.	210	170		
	ВВ	4	9	8	2	7	9	4	01/08/1991	Houot	166	357	ı	
-	вс	5	1	2	9	9	3	1	07/14/1992	Oranje	55	399		
	BD	5	1	5	4	7	4	1	10/13/1992	da Costa Filho	96	157		
	BE	5	4	8	8	9	9	3	02/06/1996	Hershberger	166	372		
	BF	5	7	0	7	4	2	7	01/13/1998	Stockman et al	95	260		
	BG	5	7	2	2	4	9	4	03/03/1998	Landeck et al.	175	7		
	вн	6	0	0	4	3	8	5	12/21/1999	Birmingham	96	174		
	ВІ	6	0	6	2	3	1	3	05/16/2000	Moore	166	357		
	BJ	6	0	6	8	0	5	3	05/30/2000	Shaw	166	267		
	вк	6	2	1	6	7	8	1	04/17/2001	Knight	166	105.5		
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	1	0	THER	DISC	LOSU	RES (	Includ	ing Au	thor, Title, Date, P	Pertinent Pages, Place of Pub	lication, Etc	.)		
	ВМ									e Gained From the First 3, May 7-10, 1990, pp. 43		sea Separ	ator,"	
	BN		Sm	ith, J	.R., "		lighla	nder		ars On," Offshore Techr		nference	(OTC) 74	138,
	во	<del>                                     </del>	Cro	ok, J	. "Se	abed	Sepa	ratio	n First for Troll	," Petroleum Review, Ma	rch 1999,	pp. 31-32		
	ВР		Pet	roch	emica	als, (u	ındat	ed), 4	pages.	System," ABB Offshore			Gas &	
	BQ		"Sı	ıbsea	Sep	aratic	n an	d Inje		SUBSIS," ABB Offshore pages.	Systems	,		
	BR								d Hatlo, A., "S 7-9, 2000, 11 pa	tate of the Art in Subsenges.	ea Pumpii	ng Techn	ology," I	FMC
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	CA	6	2	7	6	4	5	5	08/21/2001	Gonzalez	166	357			
									FOREIGN PA	TENT DOCUMENTS					
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	СВ	<u> </u>	<u></u> '	<u> </u>											
	OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)														
	СС		"Helico-Axial Multiphase Pump, Deepwater Technology," Multiphase, Guinard Pumps, Textron Fluid Handling Products, May 1989, 12 pages.												
	CD		Technical Bulletin, "Increased Oil Production by Means of Subsea Processing," Framo Engineering AS, Bergen, Norway, January 1999, 4 pages.												
	CE		Technical Bulletin, "Boosting – Increased Oil Production and Recovering Utilizing: Multiphase Pumps, Subsea Separator – SWAG," Framo Engineering AS, Bergen, Norway, November 1999, 4 pages.												
	CF		Technical Bulletin, "Subsea Multiphase Pumps for Shell, Draugen," Framo Engineering AS, Bergen, Norway, May 1999, 4 pages.											:	
	CG		Technical Bulletin, "Framo Subsea Multiphase Booster Pumps for BP ETAP," Framo Engineering AS, Bergen, Norway, April 1999, 4 pages.											ng	
	СН		"Sı	ıbsea	Mult	ipha	se Pu	mp,"	Kvaener Eurek	a a.s., Lier, Norway, (un	ndated), 6 p	pages.			
	CI		Eng	gineeı	ring /	AS, B	erger	n, Nor	rway, November	on by Means of Subsea r 1999, 4 pages.	•			10	
	cı		Rekve, S., "Fourth-Quarter Seafloor Pump Demo Set," Hart's E&P 5 <sup>th</sup> Deepwater Technology (undated), p. 31.												
	ск		"Multiphase Booster Pumps Provide Efficient Production Tool," Hart's E&P 5 <sup>th</sup> Deepwater Technology, (undated), p. 32.											ater	
	CL		Bra	dbur	y, J.,	"Pun	nping	Up t	he Volume," Ha	rt's E&P, October 2001,	, p. 29.				
	СМ									rigual Pumps," Weir Pu	•				
	CN		Harden, W.G. and Downie, A.A., "Field Trial and Subsequent Large-Scale Deployment of a Novel Multiphase Hydraulic Submersible Pump in Texaco's Catain Field," Offshore Technology Conference (OTC) 13197, April 30-May 3, 2001, pp. 1-19.												
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